

WHAT IS CLAIMED IS:

1. An apparatus for generating transmission local oscillation signals and reception local oscillation signals in a mobile terminal, comprising:
- 5 a first phase locked loop (PLL) block configured to generate a transmission local oscillation signal;
- a second PLL block for generating a reception local oscillation signal; and
- a controller configured to control the first PLL block to operate before a minimum time period required for the first PLL block to lock up from the start point of
- 10 a transmission burst period, and to control the second PLL block to operate before a minimum time period required for the second PLL block to lock up from the start point of a reception burst period.
2. An apparatus for generating a transmission local oscillation signal and
- 15 a reception local oscillation signal in a mobile terminal, comprising:
- a first PLL block configured to generate the transmission local oscillation signal;
- a second PLL block configured to generate the reception local oscillation signal; and
- 20 a controller for controlling the first PLL block to operate before an end point of a reception burst period and controlling the second PLL block to operate before an end point of a transmission burst period.
3. A method of generating a transmission local oscillation signal and a
- 25 reception local oscillation signal in a mobile terminal having a first PLL block for generating the transmission local oscillation signal and a second PLL block for generating the reception local oscillation signal, comprising:
- controlling the first PLL block to operate before a minimum time period required for the first PLL block to lock up from the start point of a transmission burst
- 30 period; and
- controlling the second PLL block to operate before a minimum time period required for the second PLL block to lock up from the start point of a reception burst

period.

4.

The method of claim 3, further comprising:

- applying the reception local oscillation signal generated from the second PLL
 5 block to a radio receiver for the reception burst period; and
 applying the transmission local oscillation signal generated from the first PLL
 block to the radio receiver for the transmission burst period.

transmitter

5.

- A method of generating a transmission local oscillation signal and a
 10 reception local oscillation signal in a mobile terminal having a first PLL block for
 generating the transmission local oscillation signal and a second PLL block for
 generating the reception local oscillation signal, the method comprising :

- controlling the first PLL block to operate before the end point of a reception
 burst period; and
 15 controlling the second PLL block to operate before the end point of a
 transmission burst period.

6.

The method of claim 5, further comprising:

- applying the reception local oscillation signal generated from the second PLL
 20 block to a radio receiver for the reception burst period; and
 applying the transmission local oscillation signal generated from the first PLL
 block to a radio receiver for the transmission burst period.

transmitter